

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	((assay\$3 or combinat\$5) and ((bead\$3 or particle\$2 or microparticle\$2 or microbead\$3 or micro?particle\$2 or micro?bead\$3 or (micro near3 (particle\$2 or bead\$3))) near5 (cod\$3 or identif\$)) and fl77resc\$ and map\$5 and (position\$4 or locat\$4)).clm.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/05 10:39
L2	6	((assay\$3 or combinat\$5) and ((bead\$3 or particle\$2 or microparticle\$2 or microbead\$3 or micro?particle\$2 or micro?bead\$3 or (micro near3 (particle\$2 or bead\$3))) near5 (cod\$3 or identif\$)) and map\$5 and (position\$4 or locat\$4)).clm.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/05 10:40
L3	26	((bead\$3 or particle\$2 or microparticle\$2 or microbead\$3 or micro?particle\$2 or micro?bead\$3 or (micro near3 (particle\$2 or bead\$3))) near5 (cod\$3 or identif\$)) and map\$5 and (position\$4 or locat\$4)).clm.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/05 10:40
S1	232	(359/2).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:06
S2	903	(359/566).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:06
S3	676	(359/569).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:06
S4	325	(359/558).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:06
S5	278	(359/571).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:06

## EAST Search History

S6	330	(359/572).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:06
S7	658	(356/72).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:06
S8	1888	(356/73.1).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:07
S9	1385	(385/12).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:07
S10	820	(385/128).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:07
S11	2621	(385/37).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:07
S12	72	(250/559.04).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:07
S13	55	(250/559.11).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:07
S14	680	(250/559.4).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:07

## EAST Search History

S15	629	(250/227.14).CAL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:07
S16	152	(250/227.29).CAL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:08
S17	669	(250/566).CAL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:08
S18	329	(250/568).CAL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:08
S19	203	(235/473).CAL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:08
S20	5177	(435/4).CAL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:08
S21	922	(435/288.7).CAL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:08
S22	710	(((359/2).CAL.S.) or ((359/566).CAL.S.) or ((359/569).CAL.S.) or ((359/558).CAL.S.) or ((359/571).CAL.S.) or ((359/572).CAL.S.) or ((356/72).CAL.S.) or ((356/73.1).CAL.S.) or ((385/12).CAL.S.) or ((385/128).CAL.S.) or ((385/37).CAL.S.) or ((250/559.04).CAL.S.) or ((250/559.11).CAL.S.) or ((250/559.4).CAL.S.) or ((250/227.14).CAL.S.) or ((250/227.29).CAL.S.) or ((250/566).CAL.S.) or ((250/568).CAL.S.) or ((235/473).CAL.S.) or ((435/4).CAL.S.) or ((435/288.7).CAL.S.)) and ((diffract\$ or bragg or hologra\$ near3 grating) and (substrate or optic\$4 near3 fiber)) and (chemical or species or assay)	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 11:35

# EAST Search History

S23	575	((((359/2).CAL.S.) or ((359/566).CAL.S.) or ((359/569).CAL.S.) or ((359/558).CAL.S.) or ((359/571).CAL.S.) or ((359/572).CAL.S.) or ((356/72).CAL.S.) or ((356/73.1).CAL.S.) or ((385/12).CAL.S.) or ((385/128).CAL.S.) or ((385/37).CAL.S.) or ((250/559.04).CAL.S.) or ((250/559.11).CAL.S.) or ((250/559.4).CAL.S.) or ((250/227.14).CAL.S.) or ((250/227.29).CAL.S.) or ((250/566).CAL.S.) or ((250/568).CAL.S.) or ((235/473).CAL.S.) or ((435/4).CAL.S.) or ((435/288.7).CAL.S.)) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 11:35
S24	2	("5,089,387").PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:53
S25	17759	((359/2).CAL.S.) or ((359/566).CAL.S.) or ((359/569).CAL.S.) or ((359/558).CAL.S.) or ((359/571).CAL.S.) or ((359/572).CAL.S.) or ((356/72).CAL.S.) or ((356/73.1).CAL.S.) or ((385/12).CAL.S.) or ((385/128).CAL.S.) or ((385/37).CAL.S.) or ((250/559.04).CAL.S.) or ((250/559.11).CAL.S.) or ((250/559.4).CAL.S.) or ((250/227.14).CAL.S.) or ((250/227.29).CAL.S.) or ((250/566).CAL.S.) or ((250/568).CAL.S.) or ((235/473).CAL.S.) or ((435/4).CAL.S.) or ((435/288.7).CAL.S.)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 10:48
S26	298	((359/2).CAL.S.) or ((359/566).CAL.S.) or ((359/569).CAL.S.) or ((359/558).CAL.S.) or ((359/571).CAL.S.) or ((359/572).CAL.S.) or ((356/72).CAL.S.) or ((356/73.1).CAL.S.) or ((385/12).CAL.S.) or ((385/128).CAL.S.) or ((385/37).CAL.S.) or ((250/559.04).CAL.S.) or ((250/559.11).CAL.S.) or ((250/559.4).CAL.S.) or ((250/227.14).CAL.S.) or ((250/227.29).CAL.S.) or ((250/566).CAL.S.) or ((250/568).CAL.S.) or ((235/473).CAL.S.) or ((435/4).CAL.S.) or ((435/288.7).CAL.S.)) and (((diffract\$ or bragg or hologra\$) near3 grating) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 11:37
S27	29	("4539507"   "4833092"   "5034613"   "5136572"   "5141671"   "5214409"   "5252962"   "5257011"   "5266926"   "5351052"   "5405709"   "5409783"   "5434878"   "5438878"   "5448582"   "5503805"   "5558904"   "5565324"   "5604097"   "5641634"   "5751629"   "5770358"   "5770455"   "5840485"   "5874214"   "5903340"   "5981180"   "6043023"   "6096494").PN.	USPAT	OR	ON	2004/09/27 11:23
S28	26495	(435/6).CAL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/27 11:34
S29	168	((359/2).CAL.S.) or ((359/566).CAL.S.) or ((359/569).CAL.S.) or ((359/558).CAL.S.) or ((359/571).CAL.S.) or ((359/572).CAL.S.) or ((356/72).CAL.S.) or ((356/73.1).CAL.S.) or ((385/12).CAL.S.) or ((385/128).CAL.S.) or ((385/37).CAL.S.) or ((250/559.04).CAL.S.) or ((250/559.11).CAL.S.) or ((250/559.4).CAL.S.) or ((250/227.14).CAL.S.) or ((250/227.29).CAL.S.) or ((250/566).CAL.S.) or ((250/568).CAL.S.) or ((235/473).CAL.S.) or ((435/4).CAL.S.) or ((435/288.7).CAL.S.)) and (((bragg) near3 (grating or reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 11:58

# EAST Search History

S30	76	((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and (((bragg) near3 (reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 12:03
S31	154	((435/6).C.A.S.) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 12:12
S32	0	WO-02061429-\$.did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 12:12
S33	0	WO-0261429-\$.did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 12:12
S34	0	WO-2002061429-\$.did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 12:12
S35	1	WO-200261429-\$.did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 12:17
S36	2	("20020127565").PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/27 12:18
S37	19	("4539507"   "4833092"   "5034613"   "5136572"   "5141671"   "5214409"   "5252962"   "5257011"   "5266926"   "5351052"   "5405709"   "5409783"   "5438878"   "5448582"   "5558904"   "5565324"   "5641634"   "5751629"   "5770455").PN.	USPAT	OR	ON	2004/09/27 13:28
S38	85	((435/6).C.A.S.) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 14:28
S39	9	((435/6).C.A.S.) and (((bragg) near3 (grating or reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 13:34



## EAST Search History

S40	6	((435/6).CCL.S.) and (((bragg) near3 (reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 14:02
S41	77	((435/6).CCL.S.) and (((diffract\$ or bragg or hologra\$) near3 grating) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 14:02
S42	333	(particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead)) and (tag\$4 or label\$4 or cod\$3 or encod\$3) and (bragg near3 (grating or mirror or reflect\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 17:04
S43	234	((particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead)) and (tag\$4 or label\$4 or cod\$3 or encod\$3) and (bragg near3 (grating or mirror or reflect\$))) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 14:29
S44	241	(particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead)) and (tag\$4 or label\$4 or cod\$3 or encod\$3) and (grating with (refract\$ near3 ind\$4))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 17:31
S45	66	(particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead)) and (tag\$4 or label\$4 or cod\$3 or encod\$3) and (grating with (refract\$ near3 ind\$4) with (vary\$3 or varia\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 17:07
S46	150	(particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead)) and (tag\$4 or label\$4 or cod\$3 or encod\$3) and (grating near3 refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 17:49
S47	2	((fiber or bragg or phase.) near3 grating) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4) with (particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 17:52
S48	32	grating with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4) with (particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:13
S49	539	grating with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4) with (substrate or film or layer)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:14

# EAST Search History

S50	61	((bragg or phase or fiber) near3 grating) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4) with (substrate or film or layer)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:22
S51	343	((bragg or phase or fiber) near3 grating) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4)) and combinat\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:23
S52	2	((bragg or phase or fiber) near3 grating) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4)) and combinat\$) and (refract\$ near3 ind\$4) and assay	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:23
S53	2	((bragg or phase or fiber) near3 grating) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4)) and combinat\$) and assay	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:23
S54	2	((bragg or phase or fiber) near3 grating) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4)) and assay\$3	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:24
S55	5	((bragg or phase or fiber or hologra\$) near3 grating) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4)) and assay\$3	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:25
S56	9	((bragg or phase or fiber or hologra\$) near3 grating) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4 or identif\$)) and assay\$3	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:29
S57	93	((bragg or phase or fiber or hologra\$) near3 grating) with (particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 09:03
S58	37374	((bragg or phase or fiber or hologra\$) near3 grating) or ((vary\$ or varia\$) with refract\$ with ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 12:27
S59	4343	((bragg or phase or fiber or hologra\$) near3 grating) or ((vary\$ or varia\$) with refract\$ with ind\$4)) and ((particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead) or fiber or substrate or layer or film) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4 or identif\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 11:10

## EAST Search History

S60	344	(((bragg or phase or fiber or hologra\$) near3 grating) or ((vary\$ or varia\$) with refract\$ with ind\$4)) and ((particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead) or fiber or substrate or layer or film) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4 or identif\$))) and (assay\$3 or combinator\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 11:11
S61	22407	((bragg or phase or fiber or hologra\$ or volume) near3 grating) or (period\$ with refract\$ with ind\$4 with grating)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 11:10
S62	2786	(((bragg or phase or fiber or hologra\$ or volume) near3 grating) or (period\$ with refract\$ with ind\$4 with grating)) and ((particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead) or fiber or substrate or layer or film) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4 or identif\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 11:11
S63	249	(((bragg or phase or fiber or hologra\$ or volume) near3 grating) or (period\$ with refract\$ with ind\$4 with grating)) and ((particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead) or fiber or substrate or layer or film) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4 or identif\$))) and (assay\$3 or combinator\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 11:12
S64	167547	(index\$ or address\$) with (particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead) or fiber or substrate or layer or film)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 11:22
S65	6664	((index\$ or address\$) with (particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead) or fiber or substrate or layer or film)) same grating	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 11:22
S66	140	(((index\$ or address\$) with (particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead) or fiber or substrate or layer or film)) same grating) and (refract\$ near3 ind\$4) and (assay or combinator\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 11:40
S67	1	("re37473").PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 11:41
S68	1	("re37891").PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 11:41
S69	1	("re33581").PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 11:42



# EAST Search History

570	76	((("3968476") or ("4011435") or ("4023010") or ("4053228") or ("4131337") or ("4386274") or ("4445229") or ("4560881") or ("4562157") or ("4647544") or ("4678752") or ("4685480") or ("4740688") or ("4748110") or ("4767719") or ("4816659") or ("4841140") or ("4877747") or ("4880752") or ("4882288") or ("4921805") or ("4931384") or ("4958376") or ("4992385") or ("5003600") or ("5033826") or ("5067155") or ("5081012") or ("5089387") or ("5095194") or ("5100238") or ("5115121") or ("5118608") or ("5138468") or ("5141848") or ("5144461") or ("5166813"))).PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 11:59
571	97	((("5196350") or ("5200794") or ("5291006") or ("5291027") or ("5300764") or ("5310686") or ("5349442") or ("5352582") or ("5364797") or ("5374816") or ("5374818") or ("5394234") or ("5442433") or ("5448659") or ("5461528") or ("5461475") or ("5465176") or ("5468649") or ("5506674") or ("5514785") or ("5528045") or ("5547849") or ("5585639") or ("5607188") or ("5621515") or ("5627040") or ("5627663") or ("5633724") or ("5663790") or ("5667976") or ("5721912") or ("5721435") or ("5729365") or ("5736330") or ("5742432") or ("5759778") or ("5760961") or ("5766956") or ("5793502") or ("5798273") or ("5799231") or ("5801857") or ("5804384") or ("5822472") or ("5824478") or ("5824557") or ("5831698") or ("5837475") or ("5841555"))).PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:18
572	4	((("5451528") or ("5712912"))).PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:19
573	96	((("5846737") or ("5874187") or ("5895750") or ("5922550") or ("5925562") or ("5925878") or ("5945679") or ("5986838") or ("5989923") or ("5998796") or ("6001510") or ("6017754") or ("6025129") or ("6025283") or ("6036807") or ("6043880") or ("6046925") or ("6049727") or ("6057107") or ("6060256") or ("6067167") or ("6067392") or ("6078048") or ("6087186") or ("6096496") or ("6097485") or ("6103535") or ("6118127") or ("6160240") or ("6160656") or ("6164548") or ("6165592") or ("6165648") or ("6194563") or ("6218194") or ("6221579") or ("6229635") or ("6259450") or ("6268128") or ("6284459") or ("6292282") or ("6292319") or ("6301047") or ("6304263") or ("6306587") or ("6309601") or ("6312961") or ("6313771") or ("6314220") or ("6319668"))).PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:22
574	72	((("6322932") or ("6329963") or ("6331273") or ("6352854") or ("6355198") or ("6371370") or ("6372428") or ("6399295") or ("6406841") or ("6406848") or ("6416714") or ("6417010") or ("6428707") or ("6428957") or ("6433849") or ("6436651") or ("6489606") or ("6496287") or ("6506342") or ("6515753") or ("6522406") or ("6524793") or ("6533183") or ("6560017") or ("6565770") or ("6592036") or ("6594421") or ("6609728") or ("6613581") or ("6618342") or ("6622916") or ("6628439") or ("6632655") or ("6635470") or ("6678429") or ("6689316") or ("6692912"))).PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:48
575	12	((("20020090650") or ("20030129654") or ("20020022273") or ("20030138208") or ("20030032203") or ("20030021003"))).PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:52

## EAST Search History

S76	4	((("5671308") or ("6340588"))).PN.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:52
S77	4262	(436/518).CCL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:59
S78	742	(436/524).CCL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:58
S79	524	(436/525).CCL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:58
S80	627	(436/526).CCL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:58
S81	786	(436/527).CCL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:58
S82	940	(436/528).CCL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:59
S83	1346	(436/531).CCL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:59
S84	6123	((436/518).CCL.S.) or ((436/524).CCL.S.) or ((436/525).CCL.S.) or ((436/526).CCL.S.) or ((436/527).CCL.S.) or ((436/528).CCL.S.) or ((436/531).CCL.S.)	US-P6PUB; USPAT; EPO: JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 12:59

## EAST Search History

S85	144	(((436/518).CQ.S.) or ((436/524).CQ.S.) or ((436/525).CQ.S.) or ((436/526).CQ.S.) or ((436/527).CQ.S.) or ((436/528).CQ.S.) or ((436/531).CQ.S.)) and grating) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 13:00
S86	226	(((436/518).CQ.S.) or ((436/524).CQ.S.) or ((436/525).CQ.S.) or ((436/526).CQ.S.) or ((436/527).CQ.S.) or ((436/528).CQ.S.) or ((436/531).CQ.S.)) and grating	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 13:49
S87	442	(modulat\$ with refract\$ with ind\$4 with grating) and (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4 or identif\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 13:51
S88	34	(modulat\$ with refract\$ with ind\$4 with grating) and (assay\$3 or combinator\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/29 09:49
S89	2	WO-9636436-\$.did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/29 09:58
S90	120	(LED or (light near3 emi\$5 near3 diode)) same bragg same (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/29 09:59

# EAST Search History

591	175	(US-6785433-\$ or US-5089387-\$ or US-6751387-\$ or US-6694067-\$ or US-6542673-\$ or US-6506342-\$ or US-6096496-\$ or US-6483096-\$ or US-6436651-\$ or US-6434298-\$ or US-6399295-\$ or US-6395558-\$ or US-6350413-\$ or US-6317528-\$ or US-6312961-\$ or US-6289144-\$ or US-6078705-\$ or US-6035082-\$ or US-6005691-\$ or US-5994150-\$ or US-5961924-\$ or US-5832165-\$ or US-5822472-\$ or US-5814565-\$ or US-5745615-\$ or US-5646400-\$).did. or (US-5455178-\$ or US-5446534-\$ or US-5210404-\$ or US-5172250-\$ or US-5113286-\$ or US-5082629-\$ or US-4892385-\$ or US-4815843-\$ or US-4767719-\$ or US-4576439-\$ or US-6591054-\$ or US-5903340-\$ or US-5770455-\$ or US-5565324-\$ or US-6365907-\$ or US-5841555-\$ or US-5627663-\$ or US-5066133-\$ or US-4568141-\$ or US-6586193-\$ or US-6579673-\$ or US-6352828-\$ or US-6280935-\$ or US-6268222-\$ or US-6251691-\$ or US-6235475-\$ or US-6214560-\$).did. or (US-6172218-\$ or US-6172214-\$ or US-6150516-\$ or US-5846719-\$ or US-5352582-\$ or US-5780231-\$ or US-6469785-\$ or US-6087655-\$ or US-5793485-\$ or US-5784157-\$ or US-5608519-\$ or US-5071248-\$ or US-4876208-\$ or US-6093536-\$ or US-5100238-\$ or US-4647544-\$ or US-6437345-\$ or US-5922550-\$ or US-RE33581-\$ or US-5118608-\$ or US-5081012-\$ or US-5003600-\$ or US-4931384-\$ or US-4880752-\$ or US-4023010-\$ or US-4011435-\$ or US-5742432-\$).did. or (US-5729365-\$ or US-5506674-\$ or US-5442433-\$ or US-5394234-\$ or US-5374816-\$ or US-5300764-\$ or US-5291027-\$ or US-6314220-\$ or US-6292282-\$ or US-6221579-\$ or US-6087186-\$ or US-6060256-\$ or US-6036807-\$ or US-5925878-\$ or US-5671308-\$ or US-6346376-\$ or US-5989923-\$ or US-5478527-\$ or US-5156810-\$).did. or (US-20040179267-\$ or US-20040179266-\$ or US-20040132172-\$ or US-20040130786-\$ or US-20040130761-\$ or US-20040125424-\$ or US-20040075907-\$ or US-20040022475-\$ or US-20030231818-\$ or US-20030215185-\$ or US-20030138207-\$ or US-20030133640-\$ or US-20020141702-\$ or US-20020076154-\$ or US-20020041724-\$ or US-20020041723-\$ or US-20040130760-\$ or US-20040021945-\$ or US-20030219205-\$ or US-20020196994-\$ or US-20020191913-\$ or US-20040181344-\$ or US-20020127565-\$ or US-20040126875-\$ or US-20040038307-\$ or US-20030207258-\$).did. or (US-20030207257-\$ or US-20030207255-\$ or US-20030207254-\$ or US-20030207253-\$ or US-20030113766-\$ or US-20030104390-\$ or US-20030059855-\$ or US-20030032039-\$ or US-20030027328-\$ or US-20030027327-\$ or US-20030017581-\$ or US-20020028451-\$ or US-20010004526-\$ or US-20030049620-\$ or US-20020155507-\$ or US-20040151626-\$ or US-20040132214-\$ or US-20040132205-\$ or US-20030092075-\$ or US-20030026891-\$ or US-20030017580-\$ or US-20020192680-\$ or US-20020168295-\$ or US-20020025534-\$ or US-20040145752-\$ or US-20030068657-\$ or US-20030124599-\$).did. or (US-20040175843-\$ or US-20040175842-\$ or US-20030129654-\$ or US-20030077660-\$ or US-20030162296-\$ or US-20030142713-\$ or US-20030142704-\$ or US-20040053295-\$ or US-20040046128-\$ or US-20030207328-\$ or US-20030157731-\$ or US-20030148542-\$ or US-20030132406-\$ or US-20030082587-\$ or US-20020104762-\$ or US-20020090613-\$ or US-20040063146-\$ or US-20030207256-\$ or US-20020034457-\$ or US-20020022273-\$ or US-20010031503-\$).did. or (WO-9636436-\$).did. or (US-20020127565-\$).did.	US-P6PUB; USPAT; EPO; DERWENT	OR	OFF	2004/09/29 12:14
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# EAST Search History

S92	18	<p>((US-6785433-\$ or US-5089387-\$ or US-6751387-\$ or US-6694067-\$ or US-6542673-\$ or US-6506342-\$ or US-6096496-\$ or US-6483096-\$ or US-6436651-\$ or US-6434298-\$ or US-6399295-\$ or US-6395558-\$ or US-6350413-\$ or US-6317528-\$ or US-6312961-\$ or US-6289144-\$ or US-6078705-\$ or US-6035082-\$ or US-6005691-\$ or US-5994150-\$ or US-5961924-\$ or US-5832165-\$ or US-5822472-\$ or US-5814565-\$ or US-5745615-\$ or US-5646400-\$).did. or (US-5455178-\$ or US-5446534-\$ or US-5210404-\$ or US-5172250-\$ or US-5113286-\$ or US-5082629-\$ or US-4892385-\$ or US-4815843-\$ or US-4767719-\$ or US-4576439-\$ or US-6591054-\$ or US-5903340-\$ or US-5770455-\$ or US-5565324-\$ or US-6365907-\$ or US-5841555-\$ or US-5627663-\$ or US-5066133-\$ or US-4568141-\$ or US-6586193-\$ or US-6579673-\$ or US-6352828-\$ or US-6280935-\$ or US-6268222-\$ or US-6251691-\$ or US-6235475-\$ or US-6214560-\$).did. or (US-6172218-\$ or US-6172214-\$ or US-6150516-\$ or US-5846719-\$ or US-5352582-\$ or US-5780231-\$ or US-6469785-\$ or US-6087655-\$ or US-5793485-\$ or US-5784157-\$ or US-5608519-\$ or US-5071248-\$ or US-4876208-\$ or US-6093536-\$ or US-5100238-\$ or US-4647544-\$ or US-6437345-\$ or US-5922550-\$ or US-RE33581-\$ or US-5118608-\$ or US-5081012-\$ or US-5003600-\$ or US-4931384-\$ or US-4880752-\$ or US-4023010-\$ or US-4011435-\$ or US-5742432-\$).did. or (US-5729365-\$ or US-5506674-\$ or US-5442433-\$ or US-5394234-\$ or US-5374816-\$ or US-5300764-\$ or US-5291027-\$ or US-6314220-\$ or US-6292282-\$ or US-6221579-\$ or US-6087186-\$ or US-6060256-\$ or US-6036807-\$ or US-5925878-\$ or US-5671308-\$ or US-6346376-\$ or US-5989923-\$ or US-5478527-\$ or US-5156810-\$).did. or (US-20040179267-\$ or US-20040179266-\$ or US-20040132172-\$ or US-20040130786-\$ or US-20040130761-\$ or US-20040125424-\$ or US-20040075907-\$ or US-20040022475-\$ or US-20030231818-\$ or US-20030215185-\$ or US-20030138207-\$ or US-20030133640-\$ or US-20020141702-\$ or US-20020076154-\$ or US-20020041724-\$ or US-20020041723-\$ or US-20040130760-\$ or US-20040021945-\$ or US-20030219205-\$ or US-20020196994-\$ or US-20020191913-\$ or US-20040181344-\$ or US-20020127565-\$ or US-20040126875-\$ or US-20040038307-\$ or US-20030207258-\$).did. or (US-20030207257-\$ or US-20030207255-\$ or US-20030207254-\$ or US-20030207253-\$ or US-20030113766-\$ or US-20030104390-\$ or US-20030059855-\$ or US-20030032039-\$ or US-20030027328-\$ or US-20030027327-\$ or US-20030017581-\$ or US-20020028451-\$ or US-20010004526-\$ or US-20030049620-\$ or US-20020155507-\$ or US-20040151626-\$ or US-20040132214-\$ or US-20040132205-\$ or US-20030092075-\$ or US-20030026891-\$ or US-20030017580-\$ or US-20020192680-\$ or US-20020168295-\$ or US-20020025534-\$ or US-20040145752-\$ or US-20030068657-\$ or US-20030124599-\$).did. or (US-20040175843-\$ or US-20040175842-\$ or US-20030129654-\$ or US-20030077660-\$ or US-20030162296-\$ or US-20030142713-\$ or US-20030142704-\$ or US-20040053295-\$ or US-20040046128-\$ or US-20030207328-\$ or US-20030157731-\$ or US-20030148542-\$ or US-20030132406-\$ or US-20030082587-\$ or US-20020104762-\$ or US-20020090613-\$ or US-20040063146-\$ or US-20030207256-\$ or US-20020034457-\$ or US-20020022273-\$ or US-20010031503-\$).did. or (WO-9636436-\$).did. or (US-20020127565-\$).did.) and (magnet\$ same (orient\$ or align\$))</p>	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/29 12:15
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# EAST Search History

593	60	<p>((US-6785433-\$ or US-5089387-\$ or US-6751387-\$ or US-6694067-\$ or US-6542673-\$ or US-6506342-\$ or US-6096496-\$ or US-6483096-\$ or US-6436651-\$ or US-6434298-\$ or US-6399295-\$ or US-6395558-\$ or US-6350413-\$ or US-6317528-\$ or US-6312961-\$ or US-6289144-\$ or US-6078705-\$ or US-6035082-\$ or US-6005691-\$ or US-5994150-\$ or US-5961924-\$ or US-5832165-\$ or US-5822472-\$ or US-5814565-\$ or US-5745615-\$ or US-5646400-\$).did. or (US-5455178-\$ or US-5446534-\$ or US-5210404-\$ or US-5172250-\$ or US-5113286-\$ or US-5082629-\$ or US-4892385-\$ or US-4815843-\$ or US-4767719-\$ or US-4576439-\$ or US-6591054-\$ or US-5903340-\$ or US-5770455-\$ or US-5565324-\$ or US-6365907-\$ or US-5841555-\$ or US-5627663-\$ or US-5066133-\$ or US-4568141-\$ or US-6586193-\$ or US-6579673-\$ or US-6352828-\$ or US-6280935-\$ or US-6268222-\$ or US-6251691-\$ or US-6235475-\$ or US-6214560-\$).did. or (US-6172218-\$ or US-6172214-\$ or US-6150516-\$ or US-5846719-\$ or US-5352582-\$ or US-5780231-\$ or US-6469785-\$ or US-6087655-\$ or US-5793485-\$ or US-5784157-\$ or US-5608519-\$ or US-5071248-\$ or US-4876208-\$ or US-6093536-\$ or US-5100238-\$ or US-4647544-\$ or US-6437345-\$ or US-5922550-\$ or US-RE33581-\$ or US-5118608-\$ or US-5081012-\$ or US-5003600-\$ or US-4931384-\$ or US-4880752-\$ or US-4023010-\$ or US-4011435-\$ or US-5742432-\$).did. or (US-5729365-\$ or US-5506674-\$ or US-5442433-\$ or US-5394234-\$ or US-5374816-\$ or US-5300764-\$ or US-5291027-\$ or US-6314220-\$ or US-6292282-\$ or US-6221579-\$ or US-6087186-\$ or US-6060256-\$ or US-6036807-\$ or US-5925878-\$ or US-5671308-\$ or US-6346376-\$ or US-5989923-\$ or US-5478527-\$ or US-5156810-\$).did. or (US-20040179267-\$ or US-20040179266-\$ or US-20040132172-\$ or US-20040130786-\$ or US-20040130761-\$ or US-20040125424-\$ or US-20040075907-\$ or US-20040022475-\$ or US-20030231818-\$ or US-20030215185-\$ or US-20030138207-\$ or US-20030133640-\$ or US-20020141702-\$ or US-20020076154-\$ or US-20020041724-\$ or US-20020041723-\$ or US-20040130760-\$ or US-20040021945-\$ or US-20030219205-\$ or US-20020196994-\$ or US-20020191913-\$ or US-20040181344-\$ or US-20020127565-\$ or US-20040126875-\$ or US-20040038307-\$ or US-20030207258-\$).did. or (US-20030207257-\$ or US-20030207255-\$ or US-20030207254-\$ or US-20030207253-\$ or US-20030113766-\$ or US-20030104390-\$ or US-20030059855-\$ or US-20030032039-\$ or US-20030027328-\$ or US-20030027327-\$ or US-20030017581-\$ or US-20020028451-\$ or US-20010004526-\$ or US-20030049620-\$ or US-20020155507-\$ or US-20040151626-\$ or US-20040132214-\$ or US-20040132205-\$ or US-20030092075-\$ or US-20030026891-\$ or US-20030017580-\$ or US-20020192680-\$ or US-20020168295-\$ or US-20020025534-\$ or US-20040145752-\$ or US-20030068657-\$ or US-20030124599-\$).did. or (US-20040175843-\$ or US-20040175842-\$ or US-20030129654-\$ or US-20030077660-\$ or US-20030162296-\$ or US-20030142713-\$ or US-20030142704-\$ or US-20040053295-\$ or US-20040046128-\$ or US-20030207328-\$ or US-20030157731-\$ or US-20030148542-\$ or US-20030132406-\$ or US-20030082587-\$ or US-20020104762-\$ or US-20020090613-\$ or US-20040063146-\$ or US-20030207256-\$ or US-20020034457-\$ or US-20020022273-\$ or US-20010031503-\$).did. or (WO-9636436-\$).did. or (US-20020127565-\$).did.) and (low\$5 with refract\$ with ind\$4)</p>	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/29 12:54
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# EAST Search History

S94	29	((US-6785433-\$ or US-5089387-\$ or US-6751387-\$ or US-6694067-\$ or US-6542673-\$ or US-6506342-\$ or US-6096496-\$ or US-6483096-\$ or US-6436651-\$ or US-6434298-\$ or US-6399295-\$ or US-6395558-\$ or US-6350413-\$ or US-6317528-\$ or US-6312961-\$ or US-6289144-\$ or US-6078705-\$ or US-6035082-\$ or US-6005691-\$ or US-5994150-\$ or US-5961924-\$ or US-5832165-\$ or US-5822472-\$ or US-5814565-\$ or US-5745615-\$ or US-5646400-\$).did. or (US-5455178-\$ or US-5446534-\$ or US-5210404-\$ or US-5172250-\$ or US-5113286-\$ or US-5082629-\$ or US-4892385-\$ or US-4815843-\$ or US-4767719-\$ or US-4576439-\$ or US-6591054-\$ or US-5903340-\$ or US-5770455-\$ or US-5565324-\$ or US-6365907-\$ or US-5841555-\$ or US-5627663-\$ or US-5066133-\$ or US-4568141-\$ or US-6586193-\$ or US-6579673-\$ or US-6352828-\$ or US-6280935-\$ or US-6268222-\$ or US-6251691-\$ or US-6235475-\$ or US-6214560-\$).did. or (US-6172218-\$ or US-6172214-\$ or US-6150516-\$ or US-5846719-\$ or US-5352582-\$ or US-5780231-\$ or US-6469785-\$ or US-6087655-\$ or US-5793485-\$ or US-5784157-\$ or US-5608519-\$ or US-5071248-\$ or US-4876208-\$ or US-6093536-\$ or US-5100238-\$ or US-4647544-\$ or US-6437345-\$ or US-5922550-\$ or US-RE33581-\$ or US-5118608-\$ or US-5081012-\$ or US-5003600-\$ or US-4931384-\$ or US-4880752-\$ or US-4023010-\$ or US-4011435-\$ or US-5742432-\$).did. or (US-5729365-\$ or US-5506674-\$ or US-5442433-\$ or US-5394234-\$ or US-5374816-\$ or US-5300764-\$ or US-5291027-\$ or US-6314220-\$ or US-6292282-\$ or US-6221579-\$ or US-6087186-\$ or US-6060256-\$ or US-6036807-\$ or US-5925878-\$ or US-5671308-\$ or US-6346376-\$ or US-5989923-\$ or US-5478527-\$ or US-5156810-\$).did. or (US-20040179267-\$ or US-20040179266-\$ or US-20040132172-\$ or US-20040130786-\$ or US-20040130761-\$ or US-20040125424-\$ or US-20040075907-\$ or US-20040022475-\$ or US-20030231818-\$ or US-20030215185-\$ or US-20030138207-\$ or US-20030133640-\$ or US-20020141702-\$ or US-20020076154-\$ or US-20020041724-\$ or US-20020041723-\$ or US-20040130760-\$ or US-20040021945-\$ or US-20030219205-\$ or US-20020196994-\$ or US-20020191913-\$ or US-20040181344-\$ or US-20020127565-\$ or US-20040126875-\$ or US-20040038307-\$ or US-20030207258-\$).did. or (US-20030207257-\$ or US-20030207255-\$ or US-20030207254-\$ or US-20030207253-\$ or US-20030113766-\$ or US-20030104390-\$ or US-20030059855-\$ or US-20030032039-\$ or US-20030027328-\$ or US-20030027327-\$ or US-20030017581-\$ or US-20020028451-\$ or US-20010004526-\$ or US-20030049620-\$ or US-20020155507-\$ or US-20040151626-\$ or US-20040132214-\$ or US-20040132205-\$ or US-20030092075-\$ or US-20030026891-\$ or US-20030017580-\$ or US-20020192680-\$ or US-20020168295-\$ or US-20020025534-\$ or US-20040145752-\$ or US-20030068657-\$ or US-20030124599-\$).did. or (US-20040175843-\$ or US-20040175842-\$ or US-20030129654-\$ or US-20030077660-\$ or US-20030162296-\$ or US-20030142713-\$ or US-20030142704-\$ or US-20040053295-\$ or US-20040046128-\$ or US-20030207328-\$ or US-20030157731-\$ or US-20030148542-\$ or US-20030132406-\$ or US-20030082587-\$ or US-20020104762-\$ or US-20020090613-\$ or US-20040063146-\$ or US-20030207256-\$ or US-20020034457-\$ or US-20020022273-\$ or US-20010031503-\$).did. or (WO-9636436-\$).did. or (US-20020127565-\$).did.) and (low\$5 with refract\$ with ind\$4 with grating)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/29 12:56
S101	2	("4537504").PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/05/06 13:00

## EAST Search History

S102	646	(((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/06 13:13
S103	337	(((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and ((diffract\$ or bragg or hologra\$) near3 grating) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/06 13:14
S104	193	(((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and (((bragg) near3 (grating or reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/06 13:14
S105	84	(((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and (((bragg) near3 (reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/06 13:14
S106	174	((435/6).C.A.S.) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/06 13:14
S107	97	(((435/6).C.A.S.) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/06 13:14
S108	11	((435/6).C.A.S.) and (((bragg) near3 (grating or reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/06 13:14

## EAST Search History

S109	8	((435/6).C.A.S.) and (((bragg) near3 (reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/06 13:15
S110	89	((435/6).C.A.S.) and (((diffract\$ or bragg or hologra\$) near3 grating) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/06 13:15
S111	150	((436/518).C.A.S.) or ((436/524).C.A.S.) or ((436/525).C.A.S.) or ((436/526).C.A.S.) or ((436/527).C.A.S.) or ((436/528).C.A.S.) or ((436/531).C.A.S.)) and grating) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/06 13:15
S112	246	((436/518).C.A.S.) or ((436/524).C.A.S.) or ((436/525).C.A.S.) or ((436/526).C.A.S.) or ((436/527).C.A.S.) or ((436/528).C.A.S.) or ((436/531).C.A.S.)) and grating	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/06 18:59
S114	47	("20020039732") or ("20030077038") or ("3891302") or ("3916182") or ("4725110") or ("4807950") or ("5367588") or ("5388173") or ("5559613") or ("5745815") or ("5981166") or ("6096596") or ("6159748") or ("6160656") or ("6174648") or ("6156501") or ("6355432") or ("6403320") or ("6416952") or ("6440667") or ("6544739") or ("6576424") or ("6646243") or ("4537504") or ("5633975").PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/12/20 13:36
S115	103	((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and (((bragg) near3 (reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/05/26 12:28
S116	126	((435/6).C.A.S.) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/05/26 12:28
S117	14	((435/6).C.A.S.) and (((bragg) near3 (grating or reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/05/26 12:28

# EAST Search History

S118	231	((359/2).CAL.S.) or ((359/566).CAL.S.) or ((359/569).CAL.S.) or ((359/558).CAL.S.) or ((359/571).CAL.S.) or ((359/572).CAL.S.) or ((356/72).CAL.S.) or ((356/73.1).CAL.S.) or ((385/12).CAL.S.) or ((385/128).CAL.S.) or ((385/37).CAL.S.) or ((250/559.04).CAL.S.) or ((250/559.11).CAL.S.) or ((250/559.4).CAL.S.) or ((250/227.14).CAL.S.) or ((250/227.29).CAL.S.) or ((250/566).CAL.S.) or ((250/568).CAL.S.) or ((235/473).CAL.S.) or ((435/4).CAL.S.) or ((435/288.7).CAL.S.)) and (((bragg) near3 (grating or reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/05/26 12:28
S119	220	((435/6).CAL.S.) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/05/26 12:28
S120	9	((435/6).CAL.S.) and (((bragg) near3 (reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/05/26 12:28
S121	399	((359/2).CAL.S.) or ((359/566).CAL.S.) or ((359/569).CAL.S.) or ((359/558).CAL.S.) or ((359/571).CAL.S.) or ((359/572).CAL.S.) or ((356/72).CAL.S.) or ((356/73.1).CAL.S.) or ((385/12).CAL.S.) or ((385/128).CAL.S.) or ((385/37).CAL.S.) or ((250/559.04).CAL.S.) or ((250/559.11).CAL.S.) or ((250/559.4).CAL.S.) or ((250/227.14).CAL.S.) or ((250/227.29).CAL.S.) or ((250/566).CAL.S.) or ((250/568).CAL.S.) or ((235/473).CAL.S.) or ((435/4).CAL.S.) or ((435/288.7).CAL.S.)) and (((diffract\$ or bragg or hologra\$) near3 grating) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/05/26 17:01
S122	124	((435/6).CAL.S.) and (((diffract\$ or bragg or hologra\$) near3 grating) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/05/26 12:28
S123	791	((359/2).CAL.S.) or ((359/566).CAL.S.) or ((359/569).CAL.S.) or ((359/558).CAL.S.) or ((359/571).CAL.S.) or ((359/572).CAL.S.) or ((356/72).CAL.S.) or ((356/73.1).CAL.S.) or ((385/12).CAL.S.) or ((385/128).CAL.S.) or ((385/37).CAL.S.) or ((250/559.04).CAL.S.) or ((250/559.11).CAL.S.) or ((250/559.4).CAL.S.) or ((250/227.14).CAL.S.) or ((250/227.29).CAL.S.) or ((250/566).CAL.S.) or ((250/568).CAL.S.) or ((235/473).CAL.S.) or ((435/4).CAL.S.) or ((435/288.7).CAL.S.)) and (((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/05/26 12:29
S124	177	((436/518).CAL.S.) or ((436/524).CAL.S.) or ((436/525).CAL.S.) or ((436/526).CAL.S.) or ((436/527).CAL.S.) or ((436/528).CAL.S.) or ((436/531).CAL.S.)) and grating) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/05/26 12:29
S125	293	((436/518).CAL.S.) or ((436/524).CAL.S.) or ((436/525).CAL.S.) or ((436/526).CAL.S.) or ((436/527).CAL.S.) or ((436/528).CAL.S.) or ((436/531).CAL.S.)) and grating	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/05/26 12:29



## EAST Search History

S126	27016	((359/2).CAL.S.) or ((359/566).CAL.S.) or ((359/569).CAL.S.) or ((359/558).CAL.S.) or ((359/571).CAL.S.) or ((359/572).CAL.S.) or ((356/72).CAL.S.) or ((356/73.1).CAL.S.) or ((385/12).CAL.S.) or ((385/128).CAL.S.) or ((385/37).CAL.S.) or ((250/559.04).CAL.S.) or ((250/559.11).CAL.S.) or ((250/559.4).CAL.S.) or ((250/227.14).CAL.S.) or ((250/227.29).CAL.S.) or ((250/566).CAL.S.) or ((250/568).CAL.S.) or ((235/473).CAL.S.) or ((435/4).CAL.S.) or ((435/288.7).CAL.S.) or ((436/518).CAL.S.) or ((436/524).CAL.S.) or ((436/525).CAL.S.) or ((436/526).CAL.S.) or ((436/527).CAL.S.) or ((436/528).CAL.S.) or ((436/531).CAL.S.)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/05/26 17:02
S127	10	S126 and assay\$3 and (bead\$3 near4 map\$5) and fl??resc\$	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/05/26 17:12
S128	65	assay\$3 and (bead\$3 near4 map\$5) and fl??resc\$	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/05/26 17:55
S129	244	(assay\$3 or combinat\$5) and ((bead\$3 or particle\$2 or microparticle\$2 or micro?particle\$2 or (micro near3 particle\$2)) near4 map\$5) and fl??resc\$	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/05/26 18:28
S130	1455	(assay\$3 or combinat\$5) and ((bead\$3 or particle\$2 or microparticle\$2 or microbead\$3 or micro?particle\$2 or micro?bead\$3 or (micro near3 (particle\$2 or bead\$3))) near5 (cod\$3 or identif\$)) and fl??resc\$ and map\$5 and (position\$4 or locat\$4)	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/06/05 10:36
S131	553	S130 and align\$4 and (plate or substrate or well) and scan\$4	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/05/26 18:32